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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/523,385	02/01/2005	Johannes Otto Voorman	NL 020728	4142

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PHILIPS INTELLECTUAL PROPERTY & STANDARDS
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EXAMINER

LAMB, CHRISTOPHER RAY

ART UNIT	PAPER NUMBER
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2627

MAIL DATE	DELIVERY MODE
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01/24/2008

PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary	Application No. 10/523,385	Applicant(s) VOORMAN ET AL.	
	Examiner Christopher R. Lamb	Art Unit 2627	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 2 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 31 October 2007.
- 2a) ☐ This action is **FINAL**. 2b) ☐ This action is non-final.
- 3) ☒ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-10 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☒ Claim(s) 1,4,6,9 and 10 is/are allowed.
- 6) ☐ Claim(s) _____ is/are rejected.
- 7) ☒ Claim(s) 2,3,5,7 and 8 is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|---|
| 1) <input type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 5) <input type="checkbox"/> Notice of Informal Patent Application |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08)
Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____ |

DETAILED ACTION

Claim Objections

1. Claims 2, 3, 7, and 8 are objected to because of the following informalities.

Appropriate correction is required.

Regarding claim 2:

The claim recites "wherein said delay difference detector comprises a first pair of sequential-logic circuits for detecting delay differences between rising edges and a second pair of sequential-logic circuits for detecting delay differences between falling edges."

However, the first and second pairs of sequential-logic circuits have already been introduced in claim 1.

Therefore this claim should read "wherein said first pair of sequential-logic circuits detects delay difference between rising edges and the second pair of sequential-logic circuits detects delay differences between falling edges."

Regarding claim 3:

This claim recites "wherein said delay-difference detector further comprises at least one analog adder/subtractor for adding/subtracting sequential-logic circuit output signals."

However, the analog adder/subtractor has already been introduced in claim 1. This claim does not add any further limitation to the subject matter claimed in claim 1.

Regarding claims 7 and 8:

They are similar to claims 2 and 3 and require similar correction.

2. Claim 5 is objected to under 37 CFR 1.75(c), as being of improper dependent form for failing to further limit the subject matter of a previous claim. Applicant is required to cancel the claim(s), or amend the claim(s) to place the claim(s) in proper dependent form, or rewrite the claim(s) in independent form.

Regarding claim 5:

Claim 1 recites wherein "said sequential logic circuits generating logic circuit output signal pairs to be **supplied directly** to at least one analog adder/subtractor."

Claim 5 is dependent on claim 1. Claim 5 recites "at least one low pass filter located between at least one sequential-logic circuit and at least one analog adder/subtractor."

If there is a low pass filter between the sequential logic circuits and the adder/subtractor, then the signal pairs are not **supplied directly** to the analog/subtractor.

Therefore this claim fails to limit the subject matter of the previous claim.

Allowable Subject Matter

3. Claims 1, 4, 6, 9, and 10 are allowed.

4. The following is a statement of reasons for the indication of allowable subject matter:

Regarding claim 1:

The closest prior art of record, Matsuda et al. (US 5,258,968) does not disclose where the sequential logic circuit output signal pairs are supplied directly to at least one

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analog adder/subtractor for adding/subtracting said sequential logic circuit output signal pairs.

This limitation in combination with the other limitations of the claim renders it allowable over the prior art of record.

Regarding claim 4:

It is dependent on claim 1.

Regarding claim 6:

It contains language similar to that of claim 1.

Regarding claim 9:

It is a method claim corresponding to claim 1 and contains similar language.

Regarding claim 10:

It is dependent on claim 9.

Conclusion

5. This application is in condition for allowance except for the formal matters indicated above.

Prosecution on the merits is closed in accordance with the practice under *Ex parte Quayle*, 25 USPQ 74, 453 O.G. 213, (Comm'r Pat. 1935).

A shortened statutory period for reply to this action is set to expire **TWO MONTHS** from the mailing date of this letter.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Christopher R. Lamb whose telephone number is (571)

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272-5264. The examiner can normally be reached on 9:00 AM to 6:30 PM Monday to Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, William Korzuch can be reached on (571) 272-7589. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

CRL 1/14/07

/William Korzuch/
SPE, Art Unit 2627